

DOD SEMIANNUAL PROGRAM REVIEW/ FACILITY INSPECTION CHECKLIST

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|----------------------------------|----------------------------------|
| ORGANIZATION | DATE OF REVIEW (YYYYMMDD) |
| SSC Pacific Biosciences Division | 20160331 |

Completion of this checklist by the IACUC during the semi-annual program review and facility inspection is mandatory. Mark X in the most appropriate category for each item. KEY: A = Acceptable; M = Minor deficiency; S = Significant deficiency (is or may be a threat to animal health or safety). Reference The Guide for the Care and Use of Laboratory Animals, 8th edition, for category details.

| CATEGORIES | A | M | S | N/A |
|--|---|---|---|-----|
| SECTION I - ANIMAL CARE AND USE PROGRAM | | | | |
| 1. PROGRAM MANAGEMENT | | | | |
| a. PROGRAM MANAGEMENT RESPONSIBILITY | X | | | |
| (1) The Institutional Official | X | | | |
| (2) The Attending Veterinarian | X | | | |
| (3) The Institutional Animal Care and Use Committee | X | | | |
| (4) Collaborations | X | | | |
| b. PERSONNEL MANAGEMENT | X | | | |
| (1) Training and Education | X | | | |
| (a) Veterinary and Other Professional Staff | X | | | |
| (b) Animal Care Personnel | X | | | |
| (c) The Research Team | X | | | |
| (d) The IACUC | X | | | |
| (2) Occupational Health and Safety of Personnel | X | | | |
| (a) Control and Prevention Strategies | X | | | |
| (b) Hazard Identification and Risk Assessment | X | | | |
| (c) Facilities, Equipment, and Monitoring | X | | | |
| (d) Personnel Training | X | | | |
| (e) Personal Hygiene | X | | | |
| (f) Animal Experimentation Involving Hazards | X | | | |
| (g) Personal Protection | X | | | |
| (h) Medical Evaluation and Preventive Medicine for Personnel | X | | | |
| (3) Personnel Security | X | | | |
| (4) Investigating and Reporting Animal Welfare Concerns | X | | | |
| 2. PROGRAM OVERSIGHT | | | | |
| a. THE ROLE OF THE IACUC | X | | | |
| (1) IACUC Constitution and Function | X | | | |
| (2) Protocol Review | X | | | |
| (3) Special Considerations for IACUC Review | X | | | |
| (a) Experimental and Humane Endpoints | X | | | |
| (b) Unexpected Outcomes | X | | | |
| (c) Physical Restraint | X | | | |
| (d) Multiple Survival Surgical Procedures | | | | X |
| (e) Food and Fluid Regulation | X | | | |
| (f) Use of Non-Pharmaceutical Grade Chemicals and Other Substances | | | | X |
| (g) Field Investigations | | | | X |
| (h) Agricultural Animals | X | | | |
| b. POSTAPPROVAL MONITORING | | | | X |
| 3. DISASTER PLANNING AND EMERGENCY PREPAREDNESS | X | | | |
| SECTION II - ENVIRONMENT, HOUSING, AND MANAGEMENT | | | | |
| 4. TERRESTRIAL ANIMALS - ENVIRONMENT | | | | |
| a. MICROENVIRONMENT AND MACROENVIRONMENT | | | | X |
| b. TEMPERATURE AND HUMIDITY | | | | X |
| c. VENTILATION AND AIR QUALITY | | | | X |
| d. ILLUMINATION | | | | X |
| e. NOISE AND VIBRATION | | | | X |

| CATEGORIES | A | M | S | N/A |
|--|---|---|---|-----|
| SECTION II - ENVIRONMENT, HOUSING, AND MANAGEMENT (Continued) | | | | |
| 5. TERRESTRIAL ANIMALS - HOUSING | | | | |
| a. MICROENVIRONMENT (PRIMARY ENCLOSURE) | | | | X |
| b. ENVIRONMENTAL ENRICHMENT | | | | X |
| c. SHELTERED OR OUTDOOR HOUSING | | | | X |
| d. NATURALISTIC ENVIRONMENTS | | | | X |
| e. SPACE | | | | X |
| (1) General Considerations for All Animals | | | | X |
| (2) Laboratory Rodents | | | | X |
| (3) Other Common Laboratory Animals | | | | X |
| (4) Nonhuman Primates | | | | X |
| (5) Agricultural Animals | | | | X |
| 6. TERRESTRIAL ANIMALS - MANAGEMENT | | | | |
| a. BEHAVIORAL AND SOCIAL MANAGEMENT | | | | X |
| (1) Activity | | | | X |
| (2) Social Environment | | | | X |
| (3) Procedural Habituation and Training of Animals | | | | X |
| b. HUSBANDRY | | | | X |
| (1) Food | | | | X |
| (2) Water | | | | X |
| (3) Bedding and Nesting Materials | | | | X |
| (4) Sanitation | | | | X |
| (a) Bedding/Substrate Change | | | | X |
| (b) Cleaning and Disinfection of the Microenvironment | | | | X |
| (c) Cleaning and Disinfection of the Macroenvironment | | | | X |
| (d) Assessing the Effectiveness of Sanitation | | | | X |
| (5) Waste Disposal | | | | X |
| (6) Pest Control | | | | X |
| (7) Emergency, Weekend, and Holiday Care | | | | X |
| c. POPULATION MANAGEMENT | | | | X |
| (1) Identification | | | | X |
| (2) Recordkeeping | | | | X |
| (3) Breeding, Genetics and Nomenclature | | | | X |
| 7. AQUATIC ANIMALS - ENVIRONMENT | | | | |
| a. MICROENVIRONMENT AND MACROENVIRONMENT | X | | | |
| b. WATER QUALITY | X | | | |
| c. LIFE SUPPORT SYSTEM | X | | | |
| d. TEMPERATURE, HUMIDITY, AND VENTILATION | X | | | |
| e. ILLUMINATION | X | | | |
| f. NOISE AND VIBRATION | X | | | |
| 8. AQUATIC ANIMALS - HOUSING | | | | |
| a. MICROENVIRONMENT (PRIMARY ENCLOSURE) | X | | | |
| b. ENVIRONMENTAL ENRICHMENT AND SOCIAL HOUSING | X | | | |
| c. SHELTERED, OUTDOOR, AND NATURALISTIC HOUSING | X | | | |
| d. SPACE | X | | | |
| 9. AQUATIC ANIMALS - MANAGEMENT | | | | |
| a. BEHAVIORAL AND SOCIAL MANAGEMENT | X | | | |
| b. HUSBANDRY | X | | | |
| (1) Food | | X | | |
| (2) Water | X | | | |
| (3) Substrate | X | | | |
| (4) Sanitation | X | | | |
| (a) Cleaning and Disinfection of the Macroenvironment | X | | | |
| (5) Waste Disposal | X | | | |
| (6) Pest Control | X | | | |
| (7) Emergency, Weekend, and Holiday Care | X | | | |
| c. POPULATION MANAGEMENT | X | | | |
| (1) Identification | X | | | |
| (2) Aquatic Animal Recordkeeping | X | | | |

| CATEGORIES | A | M | S | N/A |
|---|---|---|---|-----|
| SECTION III - VETERINARY CARE | | | | |
| 10. ANIMAL PROCUREMENT AND TRANSPORTATION | | | | |
| a. ANIMAL PROCUREMENT | X | | | |
| b. TRANSPORTATION OF ANIMALS | X | | | |
| 11. PREVENTIVE MEDICINE | | | | |
| a. ANIMAL BIOSECURITY | X | | | |
| b. QUARANTINE AND STABILIZATION | X | | | |
| c. SEPARATION BY HEALTH STATUS AND SPECIES | X | | | |
| d. SURVEILLANCE, DIAGNOSIS, TREATMENT, AND CONTROL OF DISEASE | X | | | |
| 12. CLINICAL CARE AND MANAGEMENT | | | | |
| a. MEDICAL MANAGEMENT | X | | | |
| b. EMERGENCY CARE | X | | | |
| c. RECORDKEEPING | X | | | |
| 13. SURGERY | | | | |
| a. TRAINING | X | | | |
| b. PRESURGICAL PLANNING | X | | | |
| c. SURGICAL FACILITIES | X | | | |
| d. SURGICAL PROCEDURES | X | | | |
| e. ASEPTIC TECHNIQUE | X | | | |
| f. INTRAOPERATIVE MONITORING | X | | | |
| g. POSTOPERATIVE CARE | X | | | |
| 14. PAIN AND DISTRESS | X | | | |
| 15. ANESTHESIA AND ANALGESIA | X | | | |
| 16. EUTHANASIA | X | | | |
| SECTION IV - PHYSICAL PLANT | | | | |
| 17. GENERAL CONSIDERATIONS | | X | | |
| 18. FUNCTIONAL AREAS | X | | | |
| 19. CONSTRUCTION GUIDELINES | | | | |
| a. CORRIDORS | | X | | |
| b. ANIMAL ROOM DOORS | X | | | |
| c. EXTERIOR WINDOWS | X | | | |
| d. FLOORS | | X | | |
| e. DRAINAGE | | X | | |
| f. WALLS AND CEILINGS | X | | | |
| g. HEATING, VENTILATION, AND AIR CONDITIONING | | X | | |
| h. POWER AND LIGHTING | X | | | |
| i. STORAGE AREAS | | X | | |
| j. NOISE CONTROL | X | | | |
| k. VIBRATION CONTROL | X | | | |
| l. FACILITIES FOR SANITIZING MATERIALS | | X | | |
| m. ENVIRONMENTAL MONITORING | X | | | |
| 20. SPECIAL FACILITIES | | | | |
| a. SURGERY | | X | | |
| b. BARRIER FACILITIES | X | | | |
| c. IMAGING | X | | | |
| d. WHOLE BODY IRRADIATION | X | | | |
| e. HAZARDOUS AGENT CONTAINMENT | | X | | |
| f. BEHAVIORAL STUDIES | X | | | |
| g. AQUATIC SPECIES HOUSING | X | | | |
| 21. SECURITY AND ACCESS CONTROL | X | | | |

SECTION V - REMARKS

- 19i. (b)(3) Clutter in nook to the right of the fish house.
17. Need new eye-wash station installed.
- 19l. TecQuat label is illegible.
- 19l: Beach sprayer needs updated label.
- 19l: Pill bottle with duct tape decoration above the sink is not sanitizable.
- 9b.(1): (b)(3) Many animal food buckets need to be replaced due to significant holes in buckets.
- 19g (b)(3) : Back up AC unit is running continuously due to non-functioning main unit.
- 19i. Boxes stacked to an unsafe level in storage closet.
- 19i General clutter in orange laboratory.
- 19i Shelves need to be secured to the walls in the VetLab Storage Room.
17. VetLab Necropsy Room: Fire extinguisher door doesn't close.
- 20 e. VetLab Necropsy Room: Need label corrected on formalin.
- 20e. VetLab Necropsy Room: Biohazard waste is > 30 days old.
- 19i. VetLab: Various supplies are out of date.
- 20e. VetLab: Mineral oil jug on the floor without expiration date.
17. VetLab: Post new waste management plan once it is updated.
- 19i. VetLab: Need secondary containment bins for liquids stored in broom closet.
- 20a. VetLab: Rusted surgical preparation sink and orthopedic instruments.
- 20e. VetLab: DSMO left and unlabeled on surgical preparation counter.
- 19e. VetLab: P-Trap leaking under sink in Room 105 (small equipment storage).
- 20e. VetLab: Clorhex in sample cup not properly labeled.
- 19e. VetLab: Crack in procedure room floor.
- 19a. VetLab: General clutter and dirty fish buckets in pool area and South stairway.
- 19h. (b)(3) Loading zone power source is damaged.
- 19i. No temperature monitoring in refrigeration units where gelatin foodstuffs are kept. Recommend implementation of temperature recording system.
- 19i. (b)(3) Expired triple-antibiotic ointment.
- 19i. NMAWC VetLab Area: Trash overflowing receptacle.
- 19i. NMAWC VetLab Area: Trash contains food items - no eating and drinking allowed in laboratory.
- 19i. NMAWC VetLab Area: No thermometer in laboratory refrigerator. Should maintain thermometer and conduct temperature checks to ensure refrigerated drugs are maintained at appropriate temperatures.
- 19i. NMAWC VetLab Area: NaCl bag on counter with 2013 expiration date.
- 20e. NMAWC VetLab Area: Chemical bottles, MOPEC (disinfectant), does not have current yellow Environmental Support Group bar code.
- 19i. NMAWC VetLab Area: Numerous empty alcohol spray bottles maintained in safety cabinet.
- 19i. NMAWC VetLab Area: Safety cabinet and corrosive cabinet items are cluttered and disorganized. Labeling can be improved.